the journey to restore America's Everglades

Programmatic Regulations Implementation Activities

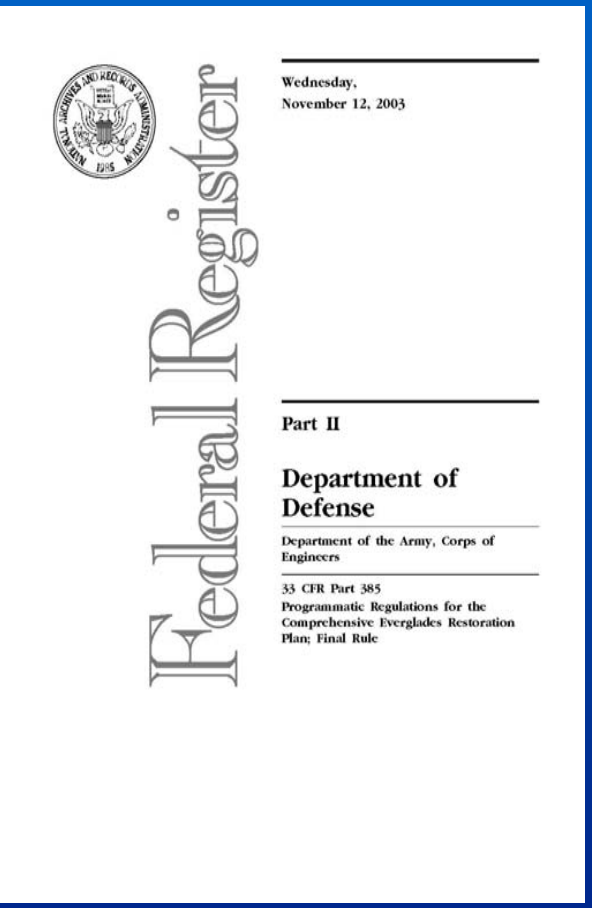
Task Force Meeting

February 18, 2004

Topics

- Introduction
- Guidance Memoranda
- Initial CERP Update
- Pre-CERP Baseline
- Master Implementation Sequencing Plan

Programmatic Regulations


Federal Register

Wednesday,
November 12, 2003

Part II

Department of Defense

Department of the Army, Corps of Engineers

33 CFR Part 385
Programmatic Regulations for the Comprehensive Everglades Restoration Plan; Final Rule

- Regulations became effective on December 12, 2003
- Regulations are now Title 33 Part 285 of Code of Federal Regulations
- Implementation activities underway
- Public workshop held on February 11 to discuss implementation activities
- First of monthly WRAC committee meetings held on February 17

Completion Dates Required by Programmatic Regulations

June 14, 2004

- RECOVER recommendations on interim goals & interim targets
- Establish Independent Science Review Panel
- Pre-CERP Baseline
- Initial CERP Update

December 13, 2004

- Guidance Memoranda
- Interim Goals Agreement
- Master Implementation Sequencing Plan

December 31, 2005

- System Operating Manual

Annual Document to the Public

Describes -

- Components of the Plan, including any approved changes to the Plan
- Estimated cost of the Plan, including any approved changes to the Plan
- Water budget for the Plan
- Water that has been reserved or allocated for the natural system under State law for the Plan

Other Required Products

Every 5 Years

- Report to Congress
- Review of Regulations
- Periodic CERP Update
- Assessment Report (adaptive management)
- Review of interim goals and interim targets
- Review of MISP

Periodic

- Effectiveness of public outreach
- Effectiveness of outreach to socially and economically disadvantaged individuals and communities

Independent Scientific Review Panel

- Purpose:
  - Review Plan's progress towards achieving natural system restoration goals and produce biennial report to Congress
- Status:
  - Memorandum of Agreement and scope of work among Army, Interior, and State developed
  - Draft Cooperative Agreement with scope of work has been developed and discussed with National Academy of Sciences

Guidance Memoranda

Comprehensive Everglades Restoration Plan

Guidance Memoranda

- Purpose: Provide specific procedures, processes, or other guidance for CERP
- Programmatic regulations require 6 guidance memoranda to be developed
- Guidance memoranda to be jointly developed by Corps and SFWMD, in consultation with others, for approval by Secretary of the Army, with the concurrence of Secretary of the Interior and Governor
- Guidance memoranda to be developed not later than December 13, 2004
- Secretary of the Army to afford public opportunity to comment on proposed guidance memoranda through notice of availability in Federal Register

Required Guidance Memoranda

- GM 1: Format and content of PIRs
- GM 2: Formulation and evaluation of alternatives for PIRs
- GM 3: Content of Operating Manuals
- GM 4: Conduct of assessment activities of RECOVER
- GM 5: Procedure for identifying appropriate quantity, timing, and distribution of water to be dedicated and managed for the natural system
- GM 6: Procedure for identifying if elimination or transfers of existing legal sources of water will occur as a result of implementation of the Plan

Guidance Memoranda Development Process

- Guidance memoranda under development by interagency guidance memoranda task team
  - Four technical sub-teams established to develop draft products
- Sub-teams preparing initial drafts of guidance memoranda
- Anticipate first draft of all guidance memoranda to be complete by June

Initial CERP Update

Comprehensive Everglades Restoration Plan

Initial CERP Update – Purpose

- Evaluate Plan based on updated modeling that includes latest scientific, technical, and planning information
- Provide basis for determining if operational or structural modifications to the Plan should be considered

Initial CERP Update Model Runs

- 2000 Existing Condition
- 2050 Without Project Condition (Updated)
- CERP1 (Updated D-13R)
- CERP Sea-Level Rise Scenario

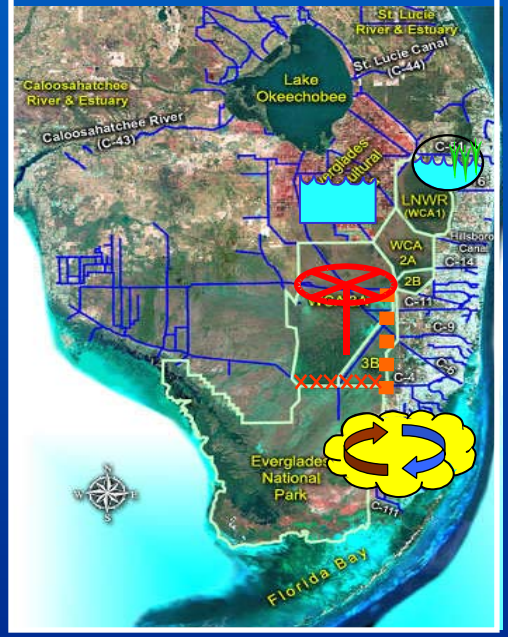
Modeling Approach

Climatic Input
- – Rainfall
- – ET

Boundary Conditions

SFWMM Model

Baseline Or Scenario



- Landuse/Landcover
- Water Demands
- Operating Criteria

Model Output
- Daily time series of water levels, flows
- Demands not met

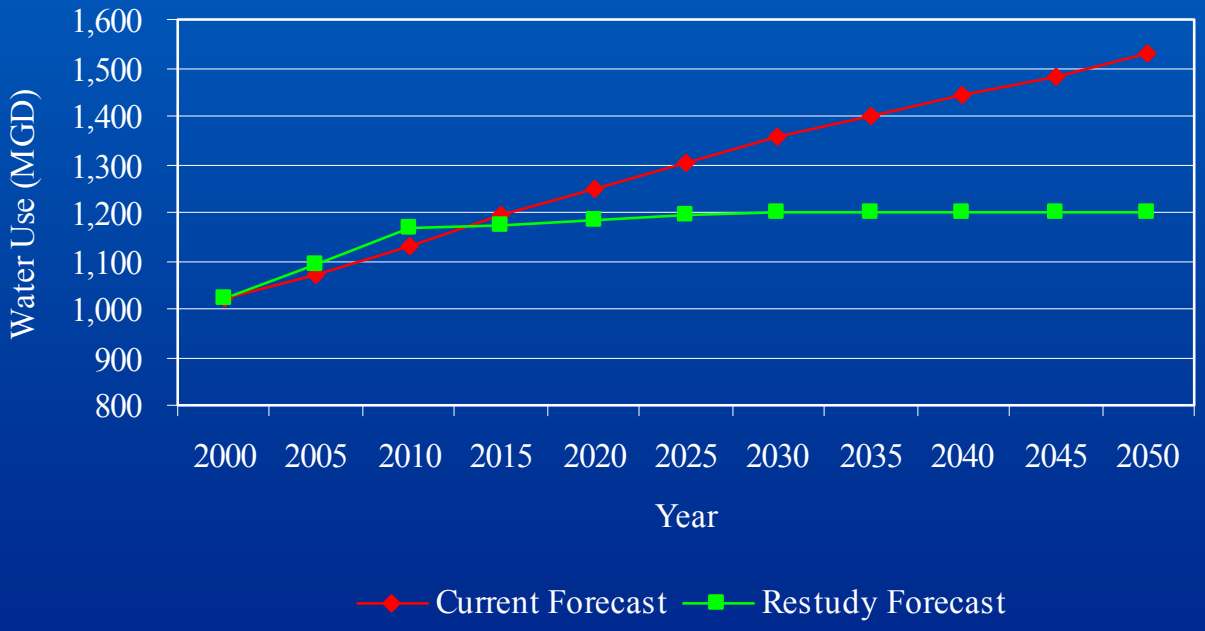
Model Changes

- SFWMM Version 3.5 and NSM Version 4.5 used for Yellow Book
- Updated SFWMM Version 5.x for Initial CERP Update
  - Extension of climatic record by 5 additional years for 36-year period of record (1965-2000)
  - Updated topographical and land cover data
  - Improved methods for rainfall and ET estimation
  - Improved modeling capabilities (e.g. small reservoir simulation, ASR recovery simulation, etc.)
- Updated NSM model version 4.6 incorporates SFWMM changes

Updated Population Information

- 2000 actual census data used for 2000 Existing Condition
- Population projections for 2050 recalculated based on updated information and methodology
  - Higher population than used in Restudy
- Urban water demands adjusted for revised population projections

Comparison to Restudy Forecast



Water Use (MGD)	2025	2050
Current Forecast	1,304	1,528
Restudy Forecast	1,192	1,198

Initial CERP Update – Status

- 2000 Existing Condition model run completed
- Updated 2050 Future Without Project Condition model run completed
- CERP1 model run underway
- Sea-level rise scenario with CERP to be modeled
- Initial CERP Update scheduled for completion in May

Pre-CERP Baseline

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Pre-CERP Baseline Definition

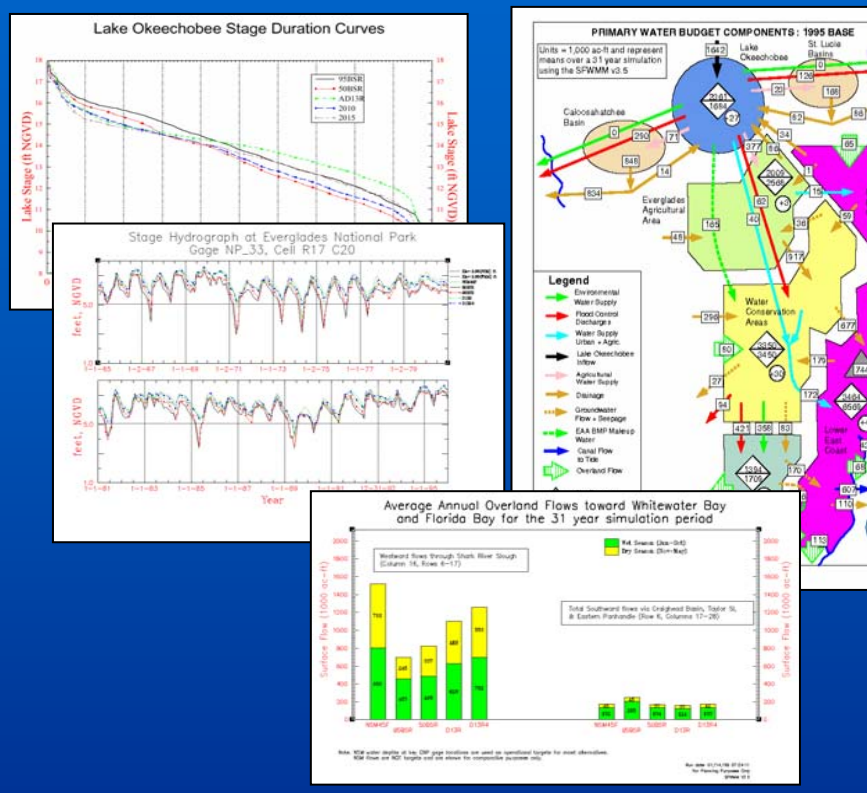
Pre-CERP baseline means the hydrologic conditions in the South Florida ecosystem on the date of enactment of WRDA 2000, as modeled by using a multi-year period of record based on assumptions such as land use, population, water demand, water quality, and assumed operations of the Central and Southern Florida Project.

Pre-CERP Baseline

- Purpose: Provide an aid in determining if existing legal sources of water will be eliminated or transferred as a result of project implementation
- Corps and SFWMD to develop by June 14, 2004 in consultation with others, including Task Force
- Approval by Secretary of the Army with concurrence of Secretary of the Interior and Governor
- In addition to pre-CERP baseline, SFWMD and Corps to conduct other analyses deemed necessary to determine if an existing legal source of water has been eliminated or transferred or if a new source is of comparable quality

Pre-CERP Baseline Model Run

Assumptions Drive Pre-CERP Baseline Model Run



Model Output

- Water Budget
- Volume-Frequency Curve
- Performance Measures

Key Assumptions for Pre-CERP Baseline

- Urban and agricultural water demands
  - Urban demands - actual withdrawals vs. amount permitted as of December 2000
  - Agricultural demands - actual crop acreage permitted vs. actual acreage irrigated as of December 2000
- How to address certain projects not constructed/operational in December 2000, but Federally authorized or state mandated as of that date (e.g., C-111, Modified Water Deliveries, STA's 1 East and 3/4)
- How to address certain operations considered "experimental", or under legal review, or development as of December 2000 (e.g., south Dade operations, backpumping to Lake Okeechobee, S-9 litigation, etc.)

Possible Assumptions for South Dade Operations

- Minimum Deliveries Schedule
- Base 83
- Test 7 Phase 1
- ISOP
- IOP
- CSOP

MISP

Comprehensive Everglades Restoration Plan

Master Implementation Sequencing Plan (MISP)

- Purpose:
  - Update sequencing and scheduling for implementation of all projects of the Plan
- Programmatic regulations require projects to be sequenced and scheduled to maximize achievement of goals and purposes of Plan at earliest possible time and in most cost-efficient way, including achievement of interim goals and targets
- MISP will include discussion of logic, constraints, and other parameters used in developing the sequencing and scheduling of projects

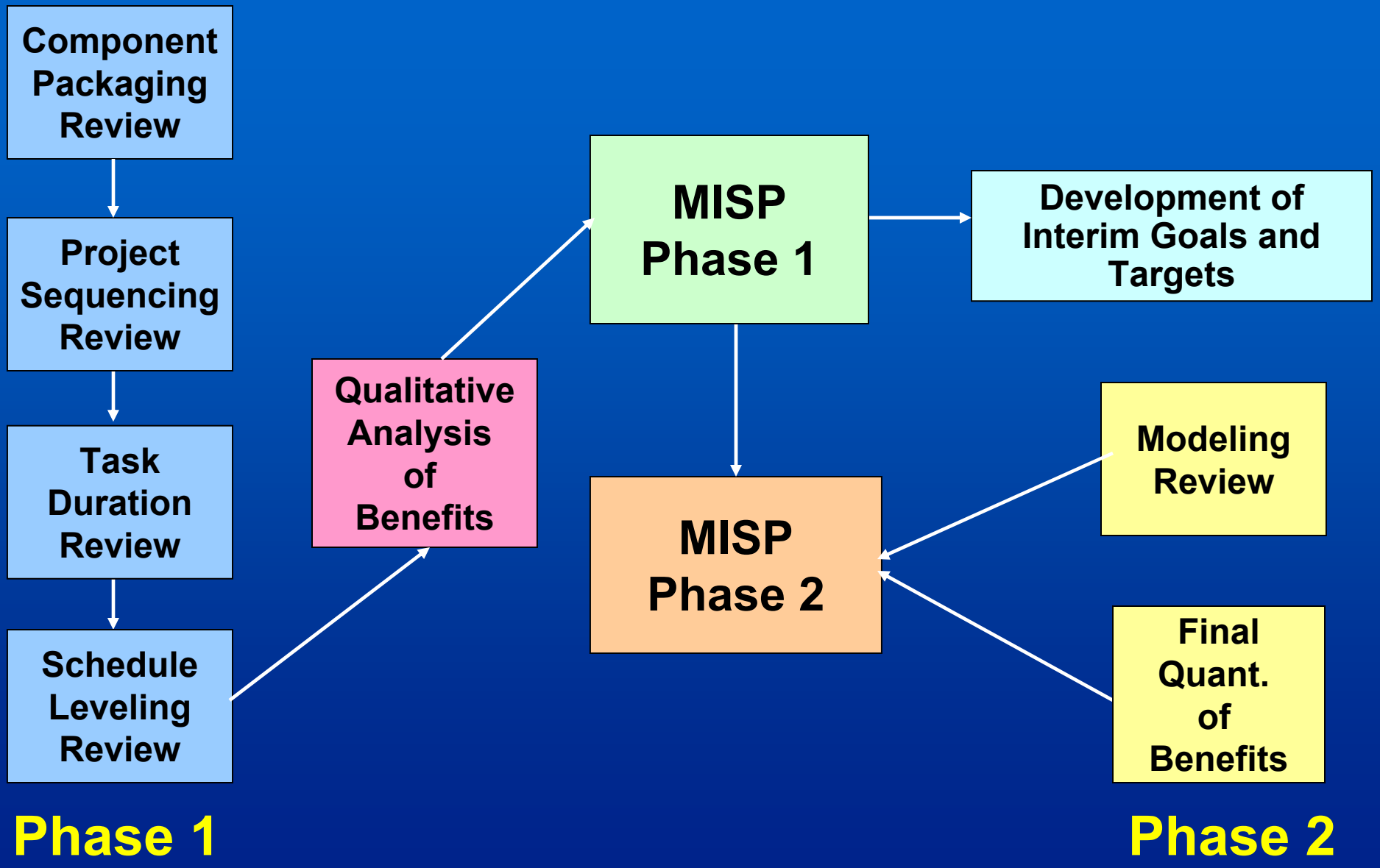
Why Review Sequencing and Scheduling?

- Formulation and evaluation procedures
  - Review PIR scope and project phasing
- Project justification on next-added increment basis
  - Review component groupings
- Elimination or transfer of existing legal sources (savings clause)
  - Review component packages and sequencing to avoid eliminations or transfers until alternative sources are available
- Provide updated information for development of interim goals and targets

Factors to be Considered in Sequencing and Scheduling

- Technical dependencies and constraints
- Benefits to be provided by the project
- Availability of lands required for the project
- Avoiding elimination or transfers of existing legal sources of water until alternative sources are available
- Resource levels

aster Implementation Sequencing Plan Developme




Thank you